

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.

Application Serial Number: 10/616,942A
Source: 1FW16
Date Processed by STIC: 11/02/04

ENTERED



IFW16

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/616,942A

DATE: 11/02/2004

TIME: 12:49:35

Input Set : A:\01997.017300.2 SEQUENCE LISTING.txt

Output Set: N:\CRF4\11022004\J616942A.raw

3 <110> APPLICANT: Kato, Seishi
 4 Sekine, Shingo
 6 <120> TITLE OF INVENTION: HUMAN PROTEINS HAVING TRANSMEMBRANE DOMAINS AND
 7 CDNAS ENCODING THESE PROTEINS
 9 <130> FILE REFERENCE: 1997.17300.2
 11 <140> CURRENT APPLICATION NUMBER: 10/616,942A
 12 <141> CURRENT FILING DATE: 2003-07-11
 14 <150> PRIOR APPLICATION NUMBER: 09/529,100
 15 <151> PRIOR FILING DATE: 2000-08-21
 17 <150> PRIOR APPLICATION NUMBER: JP 0276269
 18 <151> PRIOR FILING DATE: 1997-10-08
 20 <150> PRIOR APPLICATION NUMBER: PCT/JP98/04474
 21 <151> PRIOR FILING DATE: 1998-10-05
 23 <160> NUMBER OF SEQ ID NOS: 30
 25 <170> SOFTWARE: PatentIn Ver. 2.0
 27 <210> SEQ ID NO: 1
 28 <211> LENGTH: 168
 29 <212> TYPE: PRT
 30 <213> ORGANISM: Homo sapiens
 32 <400> SEQUENCE: 1
 33 Met Ala Phe Asn Asp Cys Phe Ser Leu Asn Tyr Pro Gly Asn Pro Cys
 34 1 5 10 15
 36 Pro Gly Asp Leu Ile Glu Val Phe Arg Pro Gly Tyr Gln His Trp Ala
 37 20 25 30
 39 Leu Tyr Leu Gly Asp Gly Tyr Val Ile Asn Ile Ala Pro Val Asp Gly
 40 35 40 45
 42 Ile Pro Ala Ser Phe Thr Ser Ala Lys Ser Val Phe Ser Ser Lys Ala
 43 50 55 60
 45 Leu Val Lys Met Gln Leu Lys Asp Val Val Gly Asn Asp Thr Tyr
 46 65 70 75 80
 48 Arg Ile Asn Asn Lys Tyr Asp Glu Thr Tyr Pro Pro Leu Pro Val Glu
 49 85 90 95
 51 Glu Ile Ile Lys Arg Ser Glu Phe Val Ile Gly Gln Glu Val Ala Tyr
 52 100 105 110
 54 Asn Leu Leu Val Asn Asn Cys Glu His Phe Val Thr Leu Leu Arg Tyr
 55 115 120 125
 57 Gly Glu Gly Val Ser Glu Gln Ala Asn Arg Ala Ile Ser Thr Val Glu
 58 130 135 140
 60 Phe Val Thr Ala Ala Val Gly Val Phe Ser Phe Leu Gly Leu Phe Pro
 61 145 150 155 160
 63 Lys Gly Gln Arg Ala Lys Tyr Tyr
 64 165
 67 <210> SEQ ID NO: 2

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68 <211> LENGTH: 164
69 <212> TYPE: PRT
70 <213> ORGANISM: Homo sapiens
72 <400> SEQUENCE: 2
73 Met Ala Ser Pro His Gln Glu Pro Lys Pro Gly Asp Leu Ile Glu Ile
74   1           5           10           15
76 Phe Arg Leu Gly Tyr Glu His Trp Ala Leu Tyr Ile Gly Asp Gly Tyr
77           20           25           30
79 Val Ile His Leu Ala Pro Pro Ser Glu Tyr Pro Gly Ala Gly Ser Ser
80           35           40           45
82 Ser Val Phe Ser Val Leu Ser Asn Ser Ala Glu Val Lys Arg Glu Arg
83           50           55           60
85 Leu Glu Asp Val Val Gly Gly Cys Cys Tyr Arg Val Asn Asn Ser Leu
86   65           70           75           80
88 Asp His Glu Tyr Gln Pro Arg Pro Val Glu Val Ile Ile Ser Ser Ala
89           85           90           95
91 Lys Glu Met Val Gly Gln Lys Met Lys Tyr Ser Ile Val Ser Arg Asn
92           100          105          110
94 Cys Glu His Phe Val Thr Gln Leu Arg Tyr Gly Lys Ser Arg Cys Lys
95           115          120          125
97 Gln Val Glu Lys Ala Lys Val Glu Val Gly Val Ala Thr Ala Leu Gly
98           130          135          140
100 Ile Leu Val Val Ala Gly Cys Ser Phe Ala Ile Arg Arg Tyr Gln Lys
101 145          150          155          160
103 Lys Ala Thr Ala
107 <210> SEQ ID NO: 3
108 <211> LENGTH: 141
109 <212> TYPE: PRT
110 <213> ORGANISM: Homo sapiens
112 <400> SEQUENCE: 3
113 Met Ala Pro Lys Val Phe Arg Gln Tyr Trp Asp Ile Pro Asp Gly Thr
114   1           5           10           15
116 Asp Cys His Arg Lys Ala Tyr Ser Thr Thr Ser Ile Ala Ser Val Ala
117           20           25           30
119 Gly Leu Thr Ala Ala Ala Tyr Arg Val Thr Leu Asn Pro Pro Gly Thr
120           35           40           45
122 Phe Leu Glu Gly Val Ala Lys Val Gly Gln Tyr Thr Phe Thr Ala Ala
123           50           55           60
125 Ala Val Gly Ala Val Phe Gly Leu Thr Thr Cys Ile Ser Ala His Val
126   65           70           75           80
128 Arg Glu Lys Pro Asp Asp Pro Leu Asn Tyr Phe Leu Gly Gly Cys Ala
129           85           90           95
131 Gly Gly Leu Thr Leu Gly Ala Arg Thr His Asn Tyr Gly Ile Gly Ala
132           100          105          110
134 Ala Ala Cys Val Tyr Phe Gly Ile Ala Ala Ser Leu Val Lys Met Gly
135           115          120          125
137 Arg Leu Glu Gly Trp Glu Val Phe Ala Lys Pro Lys Val
138           130          135          140
141 <210> SEQ ID NO: 4

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142 <211> LENGTH: 142
143 <212> TYPE: PRT
144 <213> ORGANISM: Homo sapiens
146 <400> SEQUENCE: 4
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148 1 5 10 15
150 Asp Glu Leu Leu Pro Lys Gly Asp Ala Glu Lys Pro Glu Glu Glu Leu
151 20 25 30
153 Glu Glu Asp Asp Asp Glu Glu Leu Asp Glu Thr Leu Ser Glu Arg Leu
154 35 40 45
156 Trp Gly Leu Thr Glu Met Phe Pro Glu Arg Val Arg Ser Ala Ala Gly
157 50 55 60
159 Ala Thr Phe Asp Leu Ser Leu Phe Val Ala Gln Lys Met Tyr Arg Phe
160 65 70 75 80
162 Ser Arg Ala Ala Leu Trp Ile Gly Thr Thr Ser Phe Met Ile Leu Val
163 85 90 95
165 Leu Pro Val Val Phe Glu Thr Glu Lys Leu Gln Met Glu Gln Gln Gln
166 100 105 110
168 Gln Leu Gln Gln Arg Gln Ile Leu Leu Gly Pro Asn Thr Gly Leu Ser
169 115 120 125
171 Gly Gly Met Pro Gly Ala Leu Pro Ser Leu Pro Gly Lys Ile
172 130 135 140
175 <210> SEQ ID NO: 5
176 <211> LENGTH: 346
177 <212> TYPE: PRT
178 <213> ORGANISM: Homo sapiens
180 <400> SEQUENCE: 5
181 Met Asp Pro Ala Arg Lys Ala Gly Ala Gln Ala Met Ile Trp Thr Ala
182 1 5 10 15
184 Gly Trp Leu Leu Leu Leu Leu Leu Arg Gly Gly Ala Gln Ala Leu Glu
185 20 25 30
187 Cys Tyr Ser Cys Val Gln Lys Ala Asp Asp Gly Cys Ser Pro Asn Lys
188 35 40 45
190 Met Lys Thr Val Lys Cys Ala Pro Gly Val Asp Val Cys Thr Glu Ala
191 50 55 60
193 Val Gly Ala Val Glu Thr Ile His Gly Gln Phe Ser Leu Ala Val Arg
194 65 70 75 80
196 Gly Cys Gly Ser Gly Leu Pro Gly Lys Asn Asp Arg Gly Leu Asp Leu
197 85 90 95
199 His Gly Leu Leu Ala Phe Ile Gln Leu Gln Gln Cys Ala Gln Asp Arg
200 100 105 110
202 Cys Asn Ala Lys Leu Asn Leu Thr Ser Arg Ala Leu Asp Pro Ala Gly
203 115 120 125
205 Asn Glu Ser Ala Tyr Pro Pro Asn Gly Val Glu Cys Tyr Ser Cys Val
206 130 135 140
208 Gly Leu Ser Arg Glu Ala Cys Gln Gly Thr Ser Pro Pro Val Val Ser
209 145 150 155 160
211 Cys Tyr Asn Ala Ser Asp His Val Tyr Lys Gly Cys Phe Asp Gly Asn
212 165 170 175

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214 Val Thr Leu Thr Ala Ala Asn Val Thr Val Ser Leu Pro Val Arg Gly
215          180          185          190
217 Cys Val Gln Asp Glu Phe Cys Thr Arg Asp Gly Val Thr Gly Pro Gly
218          195          200          205
220 Phe Thr Leu Ser Gly Ser Cys Cys Gln Gly Ser Arg Cys Asn Ser Asp
221          210          215          220
223 Leu Arg Asn Lys Thr Tyr Phe Ser Pro Arg Ile Pro Pro Leu Val Arg
224 225          230          235          240
226 Leu Pro Pro Pro Glu Pro Thr Thr Val Ala Ser Thr Thr Ser Val Thr
227          245          250          255
229 Thr Ser Thr Ser Ala Pro Val Arg Pro Thr Ser Thr Thr Lys Pro Met
230          260          265          270
232 Pro Ala Pro Thr Ser Gln Thr Pro Arg Gln Gly Val Glu His Glu Ala
233          275          280          285
235 Ser Arg Asp Glu Glu Pro Arg Leu Thr Gly Gly Ala Ala Gly His Gln
236          290          295          300
238 Asp Arg Ser Asn Ser Gly Gln Tyr Pro Ala Lys Gly Gly Pro Gln Gln
239 305          310          315          320
241 Pro His Asn Lys Gly Cys Val Ala Pro Thr Ala Gly Leu Ala Ala Leu
242          325          330          335
244 Leu Leu Ala Val Ala Ala Gly Val Leu Leu
245          340          345
248 <210> SEQ ID NO: 6
249 <211> LENGTH: 66
250 <212> TYPE: PRT
251 <213> ORGANISM: Homo sapiens
253 <400> SEQUENCE: 6
254 Met Val Ala Lys Gln Arg Ile Arg Met Ala Asn Glu Lys His Ser Lys
255 1          5          10          15
257 Asn Ile Thr Gln Arg Gly Asn Val Ala Lys Thr Ser Arg Asn Ala Pro
258          20          25          30
260 Glu Glu Lys Ala Ser Val Gly Pro Trp Leu Leu Ala Leu Phe Ile Phe
261          35          40          45
263 Val Val Cys Gly Ser Ala Ile Phe Gln Ile Ile Gln Ser Ile Arg Met
264          50          55          60
266 Gly Met
267 65
270 <210> SEQ ID NO: 7
271 <211> LENGTH: 504
272 <212> TYPE: DNA
273 <213> ORGANISM: Homo sapiens
275 <400> SEQUENCE: 7
276 atggcggttta atgattgctt cagtttgaac taccctggca acccctgccc aggggacttg 60
278 atcgaagtgt tccgtcctgg ctatcagcac tgggccctgt acttgggtga tggttacgtt 120
280 atcaacatag cacctgtaga tggcattcct gcgtccttta caagcgccaa gtctgtattc 180
282 agcagtaagg ccctggtgaa aatgcagctc ttgaaggatg ttgtgggaaa tgacacatac 240
284 agaataaaca ataaatacga tgaaacgtac cccctctccc ctgtggaaga aatcataaag 300
286 cggtcagagt ttgtaattgg acaggaggtg gcctataact tacttgtcaa caactgtgaa 360
288 cattttgtga cattgcttcg ctatggagaa ggagtttcag agcaggccaa ccgagcgata 420

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290 agtaccgttg agtttgtgac agctgctggt ggtgtcttct cattcctggg cttgtttcca 480
292 aaaggacaaa gagcaaaata ctat 504
295 <210> SEQ ID NO: 8
296 <211> LENGTH: 492
297 <212> TYPE: DNA
298 <213> ORGANISM: Homo sapiens
300 <400> SEQUENCE: 8
301 atggcttcgc cacaccaaga gcccaaacct ggagacctga ttgagatttt ccgccttggc 60
303 tatgagcact gggccctgta tataggagat ggctacgtga tccatctggc tcctccaagt 120
305 gagtaccccc gggctggctc ctccagtgtc ttctcagtcc tgagcaacag tgcagaggtg 180
307 aaacggggagc gcctggaaga tgtggtggga ggctgttgct atcgggtcaa caacagcttg 240
309 gaccatgagt accaaccacg gcccggtggag gtgatcatca gttctgcgaa ggagatggtt 300
311 ggtcagaaga tgaagtacag tattgtgagc aggaactgtg agcactttgt caccagctg 360
313 agatatggca agtcccgtg taaacaggtg gaaaaggcca aggttgaagt cgggtgtggc 420
315 acggcgcttg gaatcctggt tgttgctgga tgctcttttg cgattaggag atacaaaaaa 480
317 aaagcgacag cc 492
320 <210> SEQ ID NO: 9
321 <211> LENGTH: 423
322 <212> TYPE: DNA
323 <213> ORGANISM: Homo sapiens
325 <400> SEQUENCE: 9
326 atggcgccga aggtttttcg tcagtactgg gatatccccg atggcaccga ttgccaccgc 60
328 aaagcctaca gcaccaccag tattgccagc gtcgctggcc tgaccgccg tgccctacaga 120
330 gtcacactca atcctccggg caccttcctt gaaggagtgg ctaagggttg acaatacacg 180
332 ttactgacag ctgctgtcgg gcccggtgtt ggccctacca cctgcacag cgcccatgtc 240
334 cgcgagaagc ccgacgaccc cctgaactac ttctcgggtg gctgcgccgg aggcctgact 300
336 ctgggagcac gcacgcacaa ctacgggatt ggccgccggc cctgcgtgta ctttggcata 360
338 gcggcctccc tggtaagat gggccggctg gagggctggg aggtgtttgc aaaacccaag 420
340 gtg 423
343 <210> SEQ ID NO: 10
344 <211> LENGTH: 426
345 <212> TYPE: DNA
346 <213> ORGANISM: Homo sapiens
348 <400> SEQUENCE: 10
349 atggctgccg ccgtcgtgc tgccggtgca ggggaacccc agtccccgga cgaattgctc 60
351 ccgaaaggcg acgcggagaa gcctgaggag gagctggagg aggacgaaga tgaggagcta 120
353 gatgagaccc tgtcggagag actatggggc ctgacggaga tgtttccgga gaggggtccg 180
355 tccgcggccg gagccacttt tgatctttcc ctctttgtgg ctacagaaat gtacaggttt 240
357 tccagggcag ctttgtggat tgggaacct tctttatga tctggttct tccggtgtc 300
359 tttgagacgg agaagttgca aatggagcaa cagcagcaac tgcagcagcg gcagatactt 360
361 ctaggacctt acacagggtt ctcaggagga atgccagggg ctctaccctc acttctgga 420
363 aagatc 426
366 <210> SEQ ID NO: 11
367 <211> LENGTH: 1038
368 <212> TYPE: DNA
369 <213> ORGANISM: Homo sapiens
371 <400> SEQUENCE: 11
372 atggaccccc ccaggaaagc aggtgcccag gccatgatct ggactgcagg ctggctgctg 60
374 ctgctgctgc ttgcgggagg agcgcaggcc ctggagtgtc acagctgcgt gcagaaagca 120

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RAW SEQUENCE LISTING ERROR SUMMARY DATE: 11/02/2004
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:30; Xaa Pos. 150

VERIFICATION SUMMARY

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Input Set : A:\01997.017300.2 SEQUENCE LISTING.txt

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L:1236 M:257 W: Feature value mis-spelled or invalid, <221> Name/Key for SEQ ID#:30
L:1268 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:144